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- 2. USBR (600)
- 4. Electric Switchgear
- 7. Disconnecting switches for the internal installation of the plant of the Ministry of Electric Power Stations and Electrical Industry, Eng. R.Ye. Gel'man, Prom.energ. 10 no. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, ARIL 1953, Uncl.

Electric engineering. Page 88. Cables trademark S0, SA, SBC, SB, SPO, SP, SK, SBC-IK, SB-IK, SBC-ZK, SB-ZK manufactured by plants of the Ministry of Electric Power Stations and Electrical Industry (specifications and weight of lead, kg/km). Prom.energ. 10 no.5:31 My '53. (MLRA 6:5) (Electric cables)

AVINOVITSKIY, I.Ya.: ALEKSEYEV, S.V.; BARAROV, B.M.; GEL'MAI, R.Ye.;

EVOSKIN, L.I.; DOLGINOV, A.I.; YERMILOV, A.A.; ZALESSKIY, Yu.Ye.;

KAMENEVA, V.V.; KLIMIKSEYEV, V.M.; KIRYAZEVSKIY, B.A.; KUZNETSOV,

P.V.; RIVKIN, G.A.; FEDOROV, A.A.; SERBINOVSKIY, G.V., red.;

BOL'SHAM, Ya.M., red.; BRANDENBURGSKAYA, E.Ya., red.; VORONIN,

K.P., tekhn. red.

[Manual for power engineers of industrial enterprises in four volumes] Sprayochnik energetika promyshlennykh predpriiatii v chetyrekh tomakh. Moskva, Gosenergoizdat. Vol.1. [Electric power supply] Elektrosnabzhenie. Pod obshchei red. A.A.Fedorova, G.V. Serbinovskogo i IA.M.Bol'shama. 1961. 840 p. (MIRA 15:6) (Electric engineering)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710007-6"

BACHELIS, D.S.; GEL'MAN, R.Ye.; DUTKIN, G.S.; KULESHOV, Ya.G.;
NIKULIN, N.V.; RYVKIN, G.A.; SADKIN, P.I.; SMIRNOV, A.D.;
SOLOV'YEV, P.F.; KHALIZEV, G.P.; SMIRNOV, A.D., inzh., red.;
SOLOV'YEV, P.F., red.; BORUNOV, N.N., tekhn. red.

[Manual for electricians in two parts]Spravochnik elektrotekhnika v dvukh tomakh. Pod obshohei red. A.D.Smirnova. Moskva, Gosenergoizdat. Vol.1. 1962. 479 p. (MIRA 15:5) (Electric engineering—Handbooks, manuals, etc.)

GEL'MAN, R.Ye.; KULESHOV, Ya.T.; SADKIN, P.I.[deceased]; SMIRNOV,
A.D., Inzh., red.; SEGAL, Ye.I., red.; BORUNGV, N.I.,
tekhn. red.

[Electrician's manual in two volumes] Spravochnik elektrotekhnika v dvukh tomakh. Pod obshchei red. A.D.Smirnova. Moskva, Gosenergoizdat. Vol.2. No.1. [High-voltage apparatus] Apparatura vysokogo napriazheniia. 1963. 104 p. (MIRA 16:11)

(Electric engineering-Handbooks, manuals, etc.)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710007-6"

GEL'MAN, R.Ye.; KULESHOV, Ya.T.; SADKIN, P.I. [deceased]; SMIHNOV, A.D., inzh., red.; BORUNOV, N.I., tekhn. red.

[Manual for electricians in two volumes] Spravochnik elektrotekhnika v dvukh tomakh. Pod obshchei red. A.D. Smirnova. Moskva, Gosenergoizdat. Vol.2. [Complex electrical equipment] Kompleksnoe elektrooborudovanie. 1963. 255 p. (MIRA 17:2)

GLLUMAN, M.Ye., inch.; Thittin, V.C., inzh.; (Linut, F.E., inzh. red.

[Electricians manual on two volumes] Spravochnik elektrotekhnika v dvukh torakh. Moskva, Izd-vo "Energiis."

Vol.2. No.5. [Start regulating apparatus] husboreguliruiushehnia apparatura. 1964. 199 p. (MIN 17:8)

GEL'MAN, R.Ye.; MESTECHKIN, M.M.; SMIRNOV, A.D., inzh., red.

[Electrical engineering manual in two volumes] Spravochnik elektrotekhnika v dvukh tomakh. Moskva, Energiia. Vol.2. 1964. 184 p. (MIRA 17:12)

GEL'MAN, R.Ye.; KULESHOV, Ye.T.; SAVOST'YANOV, A.I.; SMIGGOV, A.D., Inzh., red.

[Electrical engineering handbook in two volumes] Spravochnik elektrotekhnika v dvukh tomakh. Moskva, Energiia. Vol.2. No.3. 1965. 240 p. (MIRA 18:6)

\$/081/62/000/003/054/090 B149/3102

AUTHOR:

Geliman, S. A.

TITLE:

Lengthening the life of concrete in marine hydrotechnical

constructions erected in the Far North

PERIODICAL: Referatively zhurnal. Khimiya, no. 3, 1962, 391, abstract 3K353 (Tr. M.-i. in-ta betona i zhelezebetona, Akad. str-va

i arkhitekt. SSSR, no. 22, 1961, 93 - 104)

TEXT: Methods are described and preliminary results given of a two year test of frost-resisting properties of 20 cm concrete cubes under the natural conditions of Kola Bay. The samples of concrete tested were of identical composition by weight, with or without air-absorbing additives (abietic tar neutralized with NaOH); cement consumption and ease of laying were assumed to be identical for both types of concrete. The same ease of laying in the case of concrete with adold abietic acid was obtained by decreasing the ratio water/cement from 0.48 to 0.43. Mowards the end of the second winter (after 750 cycles of freezing and thawing) all the samples without the admixture of tar had completely disintegrated,

Card 1/2

Lengthening the life of...

5/081/62/000/055/054/05

those with the admixture had lost<1/>
4/2 of their weight. By means of airabsorbing additives it is possible to increase considerably the resistance to freezing of concrete in marine hydrotechnical constructions.

[Abstracter's note: Complete translation.]

Card 2/2

GEL MAN, T. E.

6949. MARKOV, D. A. i GEL'MAN, T. M. Epilepsii i ikh lecheniye. Minsk, Izd-vo Akad. nauk BSSR, 1954-296s. a ill. 23 sm. (Belorus, nauch.-issled. in-t nevrologii, neyrokhirurgii, fizioterapii i klinika nervnykh bolezney Belorus, in-ta usovershenstvovaniya vrachey). 7.000 ekz. 10r. V per. -Bibliogr: s. 286-294.-55-1947/p 616-853+016-37

Knizhnaya Letopis' No. 6, 1955

GEL'MAN, T.M.; POLESSKAYA, L.P.

Treatment of epilepsy with hexanidine. Zdrav.Belor. 5 no.7:
34-36 J1 '59. (MIRA 12:9)

1. Belorusskiy nauchno-issledovatel'skiy institut nevrologii.
neyrokhirurgii i fizioterapii (direktor Ye.F.Kalitovskiy,
nauchnyy rukovoditel' - akademik D.A.Markov).

(RPILEPSY) (PTRIMIDINE)

1. GEL'MAN, V.

2. USSR (600)

4. Machine - Tractor Stations

7. Bashtanka Machine-Tractor Station struggles to achieve high yields. MTS No. 12 1952

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

GET, W	AN, V.A.	Ĉ
USSR/ Misc	ellaneous - Industrial processes	61 10
Card 1/1	Pub. 104 - 10/11	
.inthors	Geltman, V. A., and Shibayeva, Z. M.	
"itle	Method of liquidating waste during kilning of large-size glass objects	
Feriodical	1 Stek. 1 ker. 2, 29 - 30, Feb 1955	T.
Abstract	Announcement is made by the Ceramics and Refractories Laboratory of the Central Glass Scientific Research Institute on the development of a method for the elimination of waste during the kilning of large-size glass or ceramic objects. Some results obtained by means of the new method, are	

Enstitution:

listed, Drawings; graph.

Submitted:

ACC NR: AP6018014 (A) SOURCE CODE: UR/0413/66/000/010/0146/0146

INVENTOR: Gel'man, V. A.; Zatsepina, N. S.

ORG: None

TITLE: A highly refractory material. Class 80, No. 182040

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 10, 1966, 146

TOPIC TAGS: refractory compound, refractory product

ABSTRACT: This Author's Certificate introduces a highly refractory material for making heat resistant products. The material is based on artificial corundum, aluminum hydroxide and a phosphate binder. The heat resistance of finished products is increased by making the material from the following components (in wt.%): white synthetic corundum—41-47% with 0.8-1 mm grains and 32-37% with 0.03-0.05 mm grains; 9-10% aluminum hydroxide with a specific surface of 700 cm²; 6-18% orthophosphoric acid (60% concentration).

SUB CODE: 11, 07/ SUBM DATE: 10Apr64

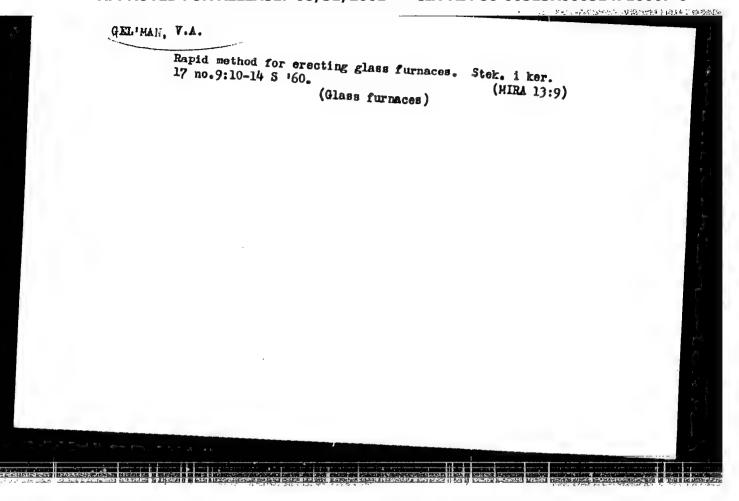
Card 1/1

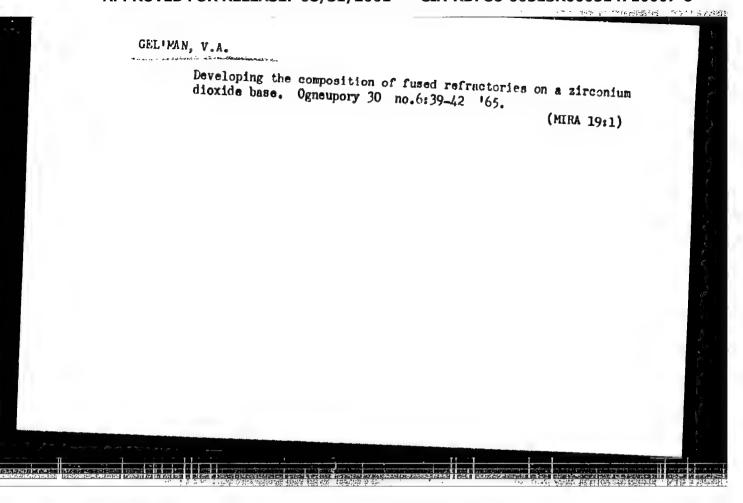
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17(5,8)

SOV/177-58-4-26/32

AUTHOR:

Gel'man, V.B. Dental Technician

TITLE:

A Complex KPN-56-type Apparatus for Manufacturing

Metallic Crowns of the Teeth (Kompleksnyy apparat KPN-56

dlya izgotovleniya zubnykh metallicheskikh koronok)

PERIODICAL:

Voyenno-meditsinskiy zhurnal, 1959, Nr 4, pp 88-89 (USSR)

ABSTRACT:

The author suggests a complex apparatus (weight 1,500 grams) for manufacturing metal crowns of teeth, which is presently being tested at the Zubotekhnicheskaya laboratoriya stomatologicheskoy polikliniki Kiyevskogo voyennogo okruga (Laboratory of Dentistry at the Stomatological Polyclinic of the Kiyev Military District).

There are 2 photographs.

Card 1/1

KUL'TEPINA, O.S., GEL'MAN, V/E.

Case of Niemann-Pick disease. Vop. okhr. mat. i det. 6 no. 1:90-92
Ja '61.

1. Iz kafedry detskikh bolezney (zav. - prof. Ye.D. Belyayeva)
Kalininskogo meditsinskogo instituta (dir. - dotsent A.I. Kushnev)
i 2-y gorodskoy bol'nitsy (glavnyy vrach O.A. Gol'dzamid).

(LIPIDOSIS)

EHRI(3)/EMP(a)/EPA(6)-2/EMT(m)/EPF(c)/EMI(1)/EPF(n)-2/EPR/T/ EPA(w)-2/14P(t)/1M2(b) Pab-10/Pq-4/Pr-4/Ps-4/Pt-7/14-4 IJP(c) JD/W/JO/MR UR/01:1/65/000/005/0039/0042 ACCESSION MEN: AF5015876 666.1.031..2.043.1 AUTHOR: (lel. man, V. A. TITE: Payeloping the composition of fused refractories based on sirconius dioxide. SOURCE: Ogneupory, no. 6, 1965, 39-42 TOPIC TAGE: high melting glass, sirconium dioxide, sluminosilicate glass, baddeleyite, refractory material, are furnace, tank furnace spalling resistance ABSTRACT: In order to develop a refractory material resistant to high-melting glass at temperatures exceeding 1700°C, a series of super-duty refractory compounds in the systems ZrO2-Al203-CaO, ZrO2-Al203-IgO, ZrO2-CaO, ZrO2-HgO, and Al. 204-MgO, has been investigated. The ray materials used were technical zirconium dicalde (97.5% ZrO2), technical alumina (grade G-00), magnesium oxide (92.25 Mg), and pulverized chalk (98.05 CaCO3). Specimens of the material were obtained by smelting briquetted charge in a laboratory three-phase are

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ACCESSION NR: APS015876

furnace with subsequent casting of melt into graphite molds. Altogether, five two-component and five three-component compounds were investigated. Their softening points under deformation proved to be 100-1;0°C higher than those of the two standard refractories with which they were compared. Tests for resistance to molten aluminosilicate glass were performed in crucibles at 1650 and 1750°C for 3 hr, using specimens measuring 10x10x100 mm. At 1650°C all specimens passed these tests: at 1750°C only specimens of compound No. 8 (60.1% 270°C), 35.2% \$120°S, 4.5% CaO) remained highly spalling-resistant. Microscopic analysis showed that the principal minerals present in the ingot of compound No. 8 are taddeleyite and corundum. The ingot contains not only the monoclinic but also the tetragonal varieties of zirconius dioxide, which considerably enhances the spalling resistance of this material. Therefore, in order to test this refractory compound in experimental and industrial glass-founding tank furnaces designed to operate at temperatures of more than 1700°C, the manufacturing technology for this compound should be sorked out. Orig. art.

ASSOCIATION: none

Card 2/3

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Card 3/3			
as and an experience of the second se			

GEL'MAN, V.B.

Problem of sudden death from cytomegaly. Vop. okh. mat. 1 det. 7 no.3: 83-85 Mr *62. (MIRA 15:5)

1. Iz kafedry sudebnoy meditsiny (zav. - dotsent A.V.Kapustin) Kalininskogo meditsinskogo instituta.

(VIRUS DISEASES) (DEATH--CAUSES)

GELMAN, N.G.,

BYKOV, P.B.; KHANKIN, L.D.; MAKEYEV, G.M., inthener, retsenzent; GEL'MAN,

V.G., inshener, redsktor; POPOLOV, Ya.N., inshener, redsktor

'Indatel'stva; Tikhonov, A.Ya., tekhnicheskiy redsktor

[Reducing setup, man and down time in lathe work] Sokrashchenie

vspomogatel'nogo vremeni pri rabote na tokarnykh stankakh. Moskva,

Gos., nauchno-tekhn. ind-vo mashinostroit. lit-ry, 1956. 166 g.

(Turning)

(MIRA 9:12)

GEL MAN, V.M., kandidat ekonomicheskikh nauk; PERSHIN, P.N., akademik, redaktor; BANNIKOV, N.I., redaktor; MUSHTAKOVA, L.P., tekhnicheskiy redaktor

[Ways of reducing labor expenditure in agriculture] Puti snisheniia satrat truda v sel'skom khosisistve. Pod red. P.M.Pershina. Moskva. Gos. izd-vo sel'khoz. lit-ry. 1956. 221 p. (MIRA 10:3)

 Akademiya nauk URSR, Kiyev. Institut ekonomiki. (Agriculture--Economic aspects) (Parm management)

"APPROVED FOR RELEASE: 08/31/2001 CI

CIA-RDP86-00513R000514710007-6

[Significance of over-ell mechanisation in agriculture] Zanchennia komplekanci mekhanizatsii v sel'sikomu hospodarstvi. Kyiv, Derzh. vyd-vo politychnol lit-ry URSR, 1957. 69 p. (MIAA 10:11)

(Agricultural machinery)

8(5)

SOY/112-59-4-7205

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1959, Nr 4, p 111 (USSR)

AUTHOR: Gel'man, V. M.

TITLE: Power Equipment in Socialist Agriculture

PERIODICAL: Kolgospnik Ukraini, 1957, Nr 10, pp 5-7 (Original in Ukrainian)

ABSTRACT: Increased use of power equipment in the agriculture of Ukraine is shown in the article. Tractors were used 5.3 hp in 1940, 6.3 hp in 1950, and 8.9 hp in 1955 per 100 hectars of tilled land. There were 54,900 automobiles used in Ukrainian agriculture in 1941, 65,900 in 1951, and 102,300 in 1956. In 1957, the number of machine-tractor stations and other specialized machine stations reached 1,369. Ukrainian agriculture has been electrified to a considerable degree: 72.4 million kwh were produced in 1940 by rural generating stations, and 455.2 million kwh in 1955. Forty rayons have been completely electrified. All machine-tractor stations and 5,600 kolkhozes have been electrified. In addition, 5,700 kolkhozes derive their electric energy from machine-tractor-station plants. Great attention is paid to utilizing wind energy.

L.G.P.

Card 1/1

GEL'MAN, V.M. [Hel'man, V.M.], kand.ekon.nauk

How the "Shliakh Illicha" Collective Farm uses its acquired machinery.

Mekh. sil', hosp. [9] no.5:4-5 My '58. (MIRA 11:6)

(Vasilyevka District--Tractors)

GEL'MAN, Vladimir Mikhaylovic'; HATANZON, I.I. [Natanzon, I.Y.] kand. tekhn.neuk, glavnyy red.

[Organization of the maintenance of tractors and agricultural machinery on Ukrainian collective farms] Organizatsiia zberihannia mashynno-traktornoho parku v kolhospakh Ukrainy. Kyiv, 1959. 29 p. (Tovarystvo dlia poshyrennia politychnykh i naukovykh znan¹ Ukrain-s¹koi RSR. Ser.6, no.16) (MIRA 13:1) (Ukraine-Agricultural machinery-Maintenance and repair)

OHL'MAN, V.M. [Hel'man, V.M.], kand.ekon.nauk

Most important factor in increasing labor productivity
on collective farms. Mekh.sil'.hosp. 10 no.12:9-11
D '59.

(Collective farms--Labor productivity)

(Collective farms--Labor productivity)

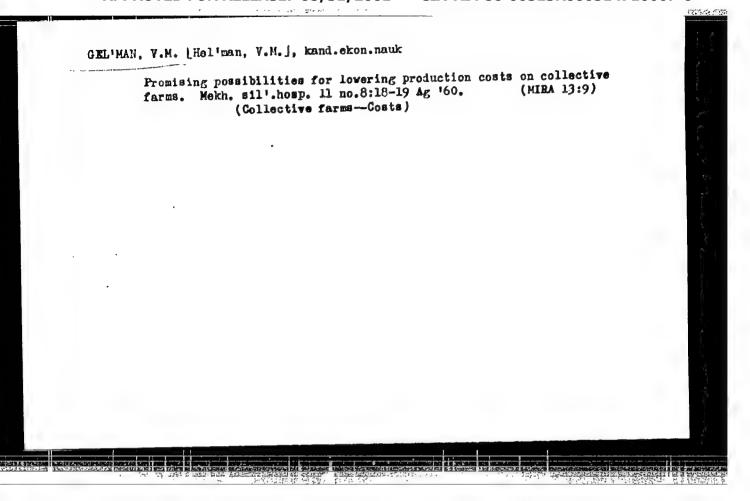
GEL MAN, V.M. [Hel'man, V.M.], kand.ekonom.nauk Size of tractor brigades in the steppe zone of the Ukraine. Mekh sil'. hosp. 13 no.9:22-24 S '62. (MIRA 17:3 (MIRA 17:3)

GEL'MAN, V.M. [Hel'man, V.M.], kand. ekon. nauk; FTOMOV, G.S. [Ftomov, H.S.]

Problems involved in wages for machinery operators on collective farms. Visnyk AN URSR 30 no.8:28-38 Ag '59.

(MIRA 13:1)

(Farm mechanisation) (Wages)



GEL MAN, Vladimir Mikhaylovich [Hel'man, V.M.]; FRANCHUK, P.O., red. DAKHNO, Yu.M., tekhm.red.

[Effectiveness of the over-all mechanization of agriculture]
Efektyvnist' kompleksnoi mekhanizatsii v sil's'komu hospodarstvi. Kyiv, Vyd-vo Akad.nauk URSR, 1961. 84 p.

(MIRA 15:4)

(Ukraine-Farm mechanization)

GEL'MAN, V. M. [Hel'man, V. M.], kand. ekonom. nauk; STEFANCHEMKO,
L. I., kand. ekonom. nauk

Forms of the organization of the work of mechanisers on collective farms. Mekh. sil'. hosp. 14 no.1:17-21 Ja '63.

(Wiraine—Farm mechanization)

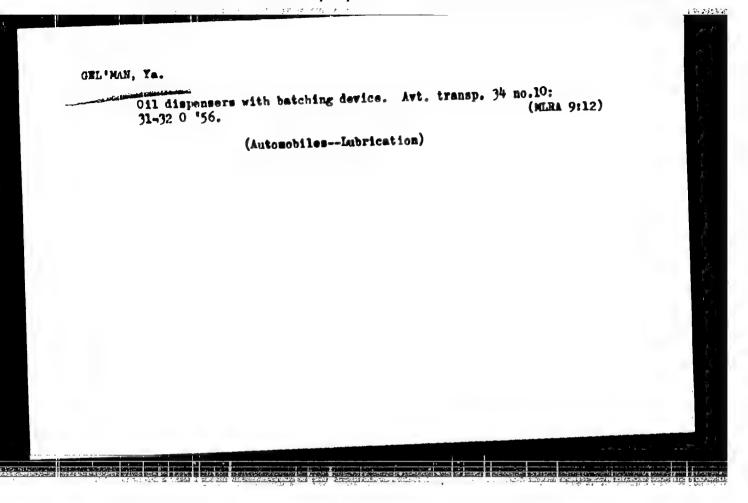
(Ukraine—Farm mechanization)

GEL! MAN, V.Ye.; FUKSMAN, I.Ya.

New method of controlling the calcination of bone charcoal Sakh. prem. 32 ne.11:31-32 N '58. (MIRA 11:12)

1.7Sentral'neye kenstrukterskeye byure Kiyevskege sevnarkheza (fer Gel'man). 2.Zhulyanskiy kestekal'nyy saved (for Fuksman).

(Animal charceal)



APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710007-6"

GEL'MAN, Ya. G.

GEL!MAN, Ya. G.: "Investigation of the static operation of the bearing structure of the internal shell of column-type subway stations." Min Transport Machinebuilding USSR. All-Union Sci Res Inst of Transport Machinebuilding. Moscow, 1956, (Dissertation for the Degree of Candidate in Technical Sciences.)

Source:

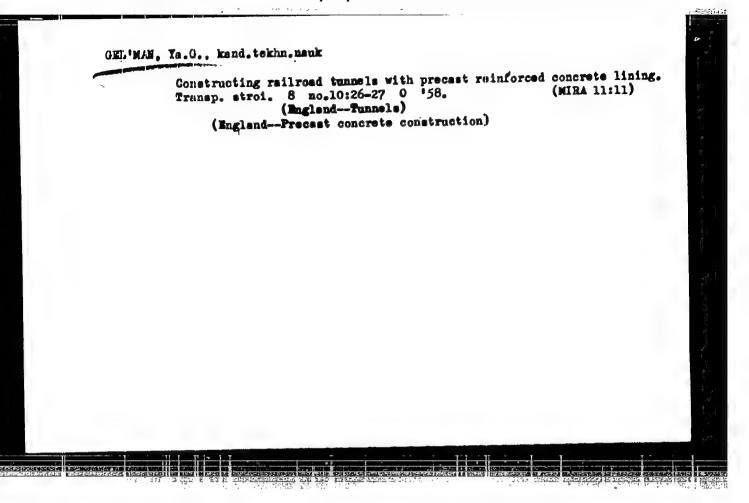
Knizhnaya letopis'

No LO

1956

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CEL MAH. Ya.G., kand.tekhn.nauk Subsurface intersections for traffic in San Francisco and Washington. Transp.strol. 9 no.3:53-55 Mr 159. (San Francisco--Tunnels) (Washington, D.C.--Tunnels)

> APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710007-6"

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CIA-RDP86-00513R000514710007-6

GEL*MAN, Ya.G., kand. tekhn. nauk

Prestressed wholly sectional lining of subway tunnels. Bet.
i zhel.-bet. 9 no.10:464-466 0 *63. (MIRA 16:12)

Ja-F 159.

Uterine rupture in 32-week pregnancy. Akush. 1 gin. 35 no.1:109

1. Is rayonnoy bol'nitay (glavnyy vrach A.G. Redkokasha) s. Sosnovka, Rovenskoy oblasti.
(UTERUS—MUPTURE)

法的计划的 拉爾 用分析

Use of leeches in treating inflammatory processes of the female genitalia. Akush. i gin. no.4183-84 '62. (MIRA 15:7)

(IMPORTANTIVE ORGANS, FEMALE...DISEASES)

Gel man , Yer A.

AID P - 4051

Subject

: USSR/Power

Card 1/1

Pub. 26 - 9/33

Authors

: Gel'man, E. A. and P. D. Zubarev, Engs.

Title

: A mobile bridge at the construction of the underground

section of the powerhouse.

Periodical: Elek. sta., 12, 30-35, 1955

Abstract

A detailed account of the construction of an unnamed power plant with the use of a mobile bridge. The mounting and operation of the bridge are described in great detail. Seven diagrams.

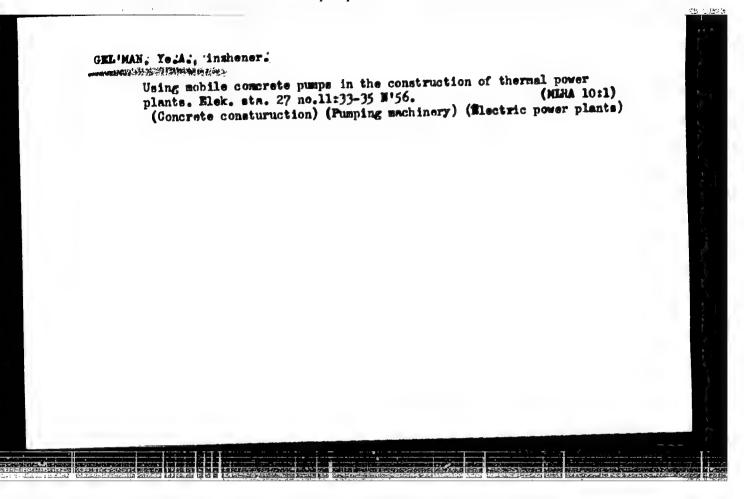
Institution:

None

Submitted

No date

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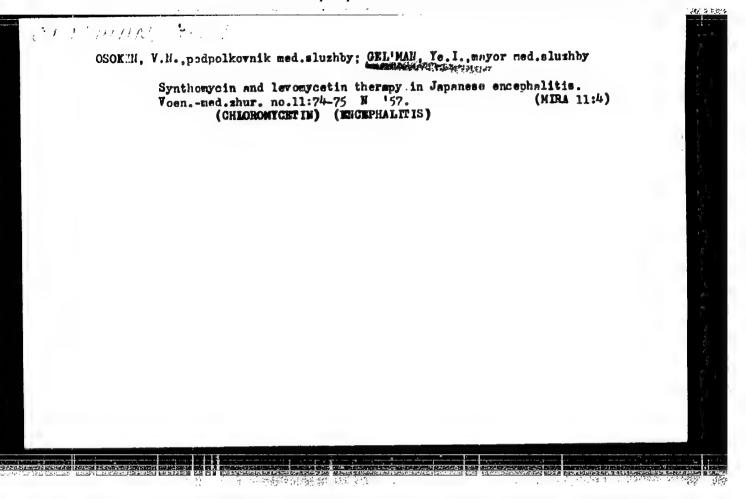
CIA-RDP86-00513R000514710007-6

GEL'MAN, Ye.A., inzh.; DRAGUNOV, Ye.Ya., inzh.

Some problems of the organization of the construction of large thermal electric power plants constructed by a univernal plan.

Energ. stroi. no.38:12-22 '64. (MRA 17:10)

1. Moskovskiy filial Vsesoyuznogo instituta po proyektirovaniyu organimatsii energeticheskogo stroitel'stva.



S/137/62/000/003/176/191 A160/A101

AUTHOR:

Gel'man, Ye. M.

TITLE:

Determination of rubidium and desium in minerals, with the use of

ionites and radioactive indicators

PERIODICAL:

Referativnyy zhurnal, metallurgiya, no. 3, 1952, 2, abstract 3 K 6 ("Khim., fiz.-khim. i spektr. metody issled. rud redk. i rasseyan.

elementov, Moscow, Gosgeoltekhizdat, 1961, 25 - 30)

Determination of Rb and Cs is based on a method developed by Wells and Stevens, which makes use of different solubilities of K, Rb and Cs chlorides in alcohol saturated with gaseous HCl. In order to obviate a necessity of repeatedly extracting RbCl when separating it out of KCl, use is made of Rb radioactive isotope. In order to extract not less than one half of the total amount of Rb, it is sufficient to perform but 1 - 2 extractions. To separate Rb and Cs more completely, to the precipitating liquid (80 % alcohol saturated with (NH4)2SO4), one adds 0,08 NH4Cl, which increases the solubility of Cs salt to a certain extent, not increasing the solubility of Rb2SO4 and K2SO4. To simplify

Card 1/2

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S/137/62/000/003/176/191 A160/A101

Determination of rubidium and

the mechanism of separation of K, Rb and Cs chlorides. rock is decomposed with a mixture of HF + HCl + HClOu. K, Rb and Cs form perchlorates difficultly soluble in alcohol, which are then separated-out disssolving in water and converted by means of ion exchange into chlorides. This conversion is made on 3/23-10 (EDE-10) resin in chlorofomfrom a weak hydrochloric acid solution with a concentration of K, Rb and Cs of ~1 mg/ml. The thus separated-out chlorides are somewhat contaminated with Al, Fe and other metals, the removal of which from alkali metal chlorides is not difficult.

N. Gertseva

[Abstracter's note: Complete translation]

Card 2/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710007-6"

37696

S/126/62/013/004/004/022 E021/E435

AUTHORS: Paylovak

Pavlovskaya, V.S., Gel'man, Yu.A.

THTLE:

Study of the ageing of aluminium-zinc alloys by the

method of nuclear magnetic resonance

PERIODICAL: Fizika metallov,i metallovedeniye, v.13, no.4, 1962,

517-520

TEXT: The natural ageing of Al-Zn alloys containing 7.8, 11.2, 13.9 and 22.9 wt % Zn was studied by means of nuclear magnetic resonance, obtaining data on deviations of the electrical field from cubic symmetry. The alloys, prepared from 99.99% Al and 99.96% Zn, were melted in a muffle furnace at 700°C in graphite crucibles under a flux. After casting into iron moulds, the billets were homogenized at 450°C for 50 hours in evacuated sealed flasks. Powdered samples (53 µ) from the billets were then sealed in an evacuated flask and heated for 1 hour at 500°C to obtain solid solution, cooled to 250°C, held for 30 minutes and quenched in cold water (10°C). After drying on filter paper for 15 to 20 minutes, the powder was placed in the measuring head of a radiospectrometer in a 1.5 cm3 glass tube. The first Card 1/2

Study of the ageing of ...

5/126/62/013/004/004/022 E021/E435

derivatives of the absorption lines from the nucleus A127 were recorded. . The main parameters showing the kinetics of ageing are the integral intensity and the mean square width of the lines. With increase in zinc concentration, both parameters decrease showing an increase in the relative number of aluminium nuclei in distorted parts of the lattice. There are two maxima on the I-time curve which are displaced to the left with increase in zinc content, indicating an accelerated ageing with increase in zinc. When the Al - 22.9% Zn alloy was air-cooled in place of waterquenching, the maxima were displaced to the right, indicating a retardation in the ageing process. There are 2 figures.

ASSOCIATION: Moskovskiy institut stali (Moscow Steel Institute)

SUBMITTED: May 21, 1961

Card 2/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710007-6"

USSR / Farm Animals. Cattle

: Ref Zhur - Biol., No 14, 1958, No 64423 Abs Jour

Author

: Gel'man, Z. Y.

Inst

Title

: Mineral Composition of the Milk of High-Producing Crosses of : Dairy Institute of Vologda

the Black-Spotted Cattle of the Vologda Oblast'

Orig Pub

: Tr. Vologdsk. molochn. in-ta, 1956, vyp. 14, 105-119

Abstract

: The mineral composition of milk (MCM) in 10 cows, crossbreeds of East Friesians and Kholmogory of the 2nd generation, with yearly milk yield of 6,000-8,000 kg. and live weight of 500-600 kg., was studied. The animals were fed complete rations. As mineral supplementation, besides common salt, the cows were given chalk and bone meal during different periods of experimentation. Considerable individual variations of MCM (the greatest range of variations was that in relation to K, 28.7%, the least in regard to P, 13.8%), as

Card 1/2

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APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710007-6" USBR / Farm Animals. Cattle.

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Abs Jour : Ref Zhur - Biol., No 14, 1958, No 64423

well as variations according to the months of lactation, were determined. As to the content of Ca, P, Mg and Na, the MCM of the crossbreeds under study was close to the MCM of the Yaroslavl' cattle. With increase of the Milk yield, the content of Ca and P in the Milk augmented. A tendency towards a somewhat higher content of Ca and Mg in the summer milk was noted.

Card 2/2

GEL'MAN-VINOGRADOV, K.B.; KUZINA, A.A., dots; red.; PIROGOV, A.I., tekhn. red.

[Microfilming documentary materials and the organization of work with microfilms in Soviet archives] Mikrofotokopirovanie dokumental'nykh materialov i organizatsiia raboty s mikrofotokopiiami v arkhivakh SSSR. Ped red. A.A.Kuzina. Moakva, M-vo vysshego i srednego spetsial'nogo obrazovaniia RSFSR, 1961. 183 p.

(Microphotography)

(Microphotography)

Gel'Manov, K.; Khurin, Mikhail (g.Lipetsk); VOROTNIKOV, A.

Good lucki. Tekh.mol. 28 no.6:1-3 '60. (MIRA 13:7)

1. Glavnyy inshener Teletskogo elementnogo savoda (for Gel'manov). 2.
Pervyy sekretar' Lipetskogo obkoma komsomola (for Vorotnikov).

(Efficiency, Industrial)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710007-6"

GEL MANOVA, S.Z.; MENZHINSKIY, Ye.A.; BATASOV, S.A. [Economic conditions of capitalist countries; survey of economic trends in 1962. and the beginning of 1963] Ekonomicheskoe polozhenie kapitalisticheskikh stran; kon'-

iutkurnyi obzor za 1962 g. i nachalo 1963 g. Moskva, Izd-vo "Pravda," 1963. 157 p. (MIRA 16:9) (Economic history) (MIRA 16:9)

CIA-RDP86-00513R000514710007-6" APPROVED FOR RELEASE: 08/31/2001

CEL!MAN-VINOGRADOV, K.B.

History of the processing of punched cards by manual sorting.

NTI no.9:24-25 *64. (MIRA 18:2)

第二次中央的企業的

GELIMER, V.O., kend.tekhn. nauk

How to determine the composition and adhesiveness of bitumen and tar according to nomograms. Avt. dor. 21 no. 7:22-24 J1 '58.

(Bitumen)

(Ter)

VOLKOV, Mikhail Ivanovich, prof.; GEL'MER, Vladimir Cskarovich, kand.
tekhn.nauk; ZASHCHEPIE, AYONEY, THYTEICH; Esser, Wakhn.nauk;
LYSIKHINA, Aleksandra Ivanovna, kand.tekhn.nauk; MIKHAYLOV,
Valentin Vasil'yevich, kand.tekhn.nauk; PANTELEYNV, Fedor
Nikolayevich, kand.tekhn.nauk; SAMOYLOV, Mikhail Pavlovich,
insh.; GHNATSKIY, E.V., prof., doktor tekhn.nauk, glavnyy red.;
MOROZOV, V.I., red.; MAL'KOVA, E.V., tekhn.red.

1776

[Handbook for road engineers; road materials] Spravochnik inshenera-doroshnika; doroshno-stroitel'nye materialy. Moskva, Nauchno-tekhn.isd-vo M-va avtomobil'nogo transp. i shosseinykh dorog RSFSR, 1959. 308 p. (MIRA 12:8)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710007-6"

VOLKOV, Mikhail Ivanovich, prof.; GEL'MER, Vladimir Oskarovich, dotsent, kand.tekhn.nauk; ZASOBIN, Euka Fedorovich, dotsent, kand.tekhn.nauk, [deceased]; PANTHEINEV, Fedor Nikolayevich, dotsent, kand.tekhn.nauk; YEGOZOV, V.P., red.; MAL'KOVA, N.V., tekhn.red.

[Road materials] Doroshno-stroitel nye materialy. Izd.3., perer.
Moskva, Nauchno-tekhn.isd-vo N-va avtomobil nogo transporta i
shosseinykh dorog RSFSR, 1960. 543 p. (MIRA 13:7)
(Road materials)

Galingolita, N. F.

"Certain Considerations Concerning the Classification of Clouds" Trudy Kazakhak. n.-i. Gidromet. in-ta, No 2, 1954, 32-39

The international me atlas of clouds (published in 1929) possesses serious deficiencies relative to the systematics of clouds, numericature of chapes, and varieties and sufficient orderliness of the classification itself. The author proposes the following scheme of classification: Families -- (1) clouds of stable air masses, mainly St and Sc; (2) clouds of unstable air masses, mainly Cy, intramass Cb, Ac mank, cast, clouds associated with Cb etc.; (3) frontal clouds, certain forms of Ci, Cs, As, Ns, frontal Cb, Ac, Sc, etc.; (4) clouds of degraduating processes, certain Ci, Cc, Ac lent, Ac virga, etc. System - genus, species, variety (this is to replace the system shape, variety, special formations). Adding to the 10 existing shapes an 11th shape Fn as an independently existing one, the author proposes principal cloud shapes: Ci, Cc, Ac, Sc Cs, As, Ns, Fn, St, Cu, Cb. (RZhGeol, No 9, 1955)

50: Sum-No 815, 7 Mar 56

GEL'MGOL'TS, N. F.

"Improvement and Acceleration of the Processing of Aerological Observations".
Trudy Kasakhek n.-i. gidromet. in-ta, No 2, pp 52-58, 1954.

The considerable errors arising during calculations of pressure at great heights according to data of vertical sounding by existing graphical methods prompt the author to propose and analytical method. Employing a barmetric formula he derives a formula for the interpolation $\Lambda(\log p) = (\log p/AH) \cdot AH$, where $A\log p$ is the difference of the logarithms of two known pressures p_1 and p_2 , AH is the difference of heights for these pressures, $(\log P)$ is the difference between $\log p_1$ and the logarithm of the desired pressure, and AH is the difference between the sought-for height and the height with pressure P_1 . The formula for watrapolation possesses a similar form. (R2hGeol, No 10, 1955)

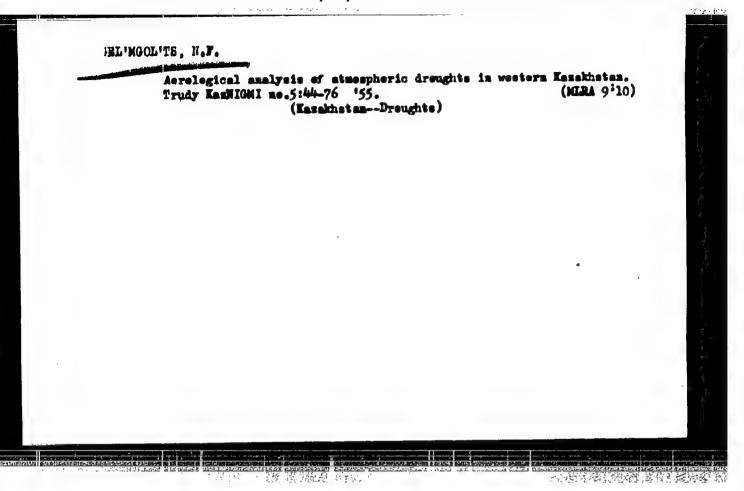
SO: Sum No 884, 9 Apr 1956

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710007-6"

"Atmospheric Fronts and Precipitation in the Lowbon's Part of Kazakhsten" Vestn. All Hazakh LoR, No 5, 66-72, 1901

The author considers the connection between the atmem cric fronts and the presiditation in Hazakhstan according to data of meteorological and aerological observations for 1902, and established the quantity of precipitation beculiar to various fronts at different times of the year. Warm and cold fronts give precipitation (above 0.5 mm) only in 40,0 of the cases. The greatest emount of precipitation (round be,0 of all sums of precipitation) falls during the passage of cold fronts; the least, dering passage of warm fronts and occlusion fronts. (Rahoeol, No 6, 1954)

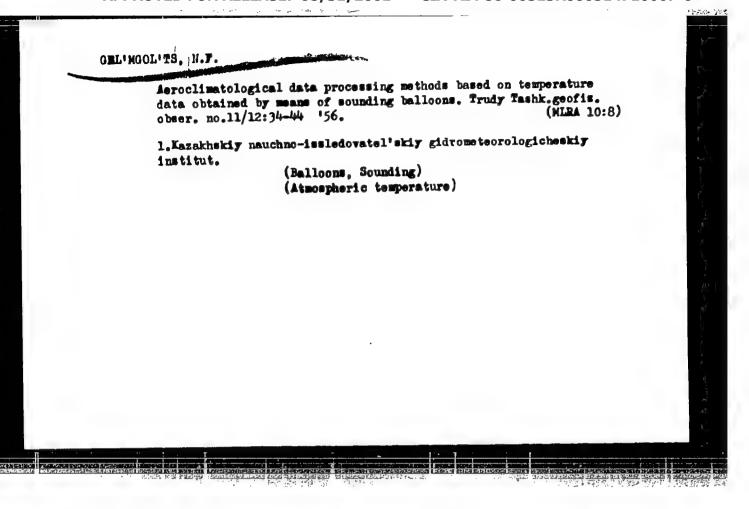
50: 5um. 492, 12 may 55

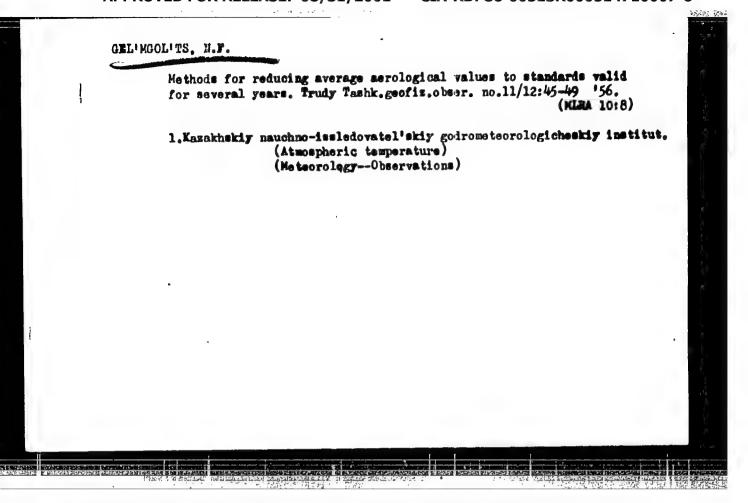


GHL'MGOL'TS, N.F.

***Regulrements for series of acrological observations to obtain average values of given accuracy. Truly Tashk.geofiz.obser.
no.11/12:25-33 '56. (MLRA 10:8)

1. Karakhskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut. (Meteorology--Observations)





UTIMAGANBETOV, M.M., kand.geogr.nauk; BERLYAND, T.G., kand.geogr.nauk;

BEZVKIKHNIY, Sh.A., kand.fiz.-matem.nauk; BAYDAL, M.Kh., kand.

geogr.nauk; KUZNETSOV, A.T., kand.geogr.nauk; CHUBUKOV, L.A.,

doktor geogr.nauk; SHYTHEVA, Yu.G., mladshiy nauchnyy storudnik;

UTESHEV, A.S., kand.geogr.nauk; GOL'TSBERG, I.A., doktor geogr.

nauk; KLYKOVA, Z.D., atarahiy nauchnyy sotrudnik; MEN'SHIKOVA,

Ye.A., mladshiy nauchnyy sotrudnik; OEL'MQOL'TS, N.F., starshiy

nauchnyy sotrudnik; PROKHOROV, I.I., starshiy nauchnyy sotrudnik;

TKACHENKO, N.S., mladshiy nauchnyy sotrudnik; ZHDANOVA, L.P.,

red.; BRAYNINA, M.I., tekhn.red.

[Climate of Kazakhatan] Klimat Kazakhatana. Pod red. A.S.Ute-sheva. Leningrad, Gidrometeor.isd-vo. 1959. 366 p.
(MIRA 13:5)

1. Russia (1923- U.S.S.E.) Glavnoye upravleniye gidrometeorologicheskoy sluxhby. 2. Kazakhskiy pedagogicheskiy institut
(KasPI) (for Utimegambetov). 3. Glavnaya geofizicheskaya observatoriya im. A.I.Voyeykova (GGO) (for Berlyand, Gel'tsberg). 4. Kasakhskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut KazNIGMI) (for Besverkhniy, Baydal, Kusmetsov, Uteshev, Klykova, Men'shikova, Gel'mgel'ts, Prokhorov, Tkachenko). 5. Institut geografii Akademii nauk SSSR (IG AM SSSR) for Shvyreva).
(Kasakhstan-Climate)

S/169/60/000/011/012/016 A005/A001

Translation from: Referativnyy zhurnal, Geofizika, 1950, No. 11, p. 137, # 14246

AUTHOR:

Gel'mgol'ts. N.F.

TITLE:

The Evolution Conditions of the Atmospheric Turbulence in the Foot Hill Zone of South-East Kazakhstan

MILI Zotte of Boutin-East Razarais

PERIODICAL: Tr. Kazakhsk. n-i. gidrometeorol. in-ta, 1959, No. 11, pp. 152-161

TEXT: The processing results are presented of expedition flights on the route Alma-Ata - Frunze - Dzhambul - Chikment in the time from March 20 to April 11, 1956. The flights were carried out in the main at steady weather. The aerological data were recorded according to the observation data from theodolite locators (3 points along the route) and sounding balloons (also at 3 points). The aircraft load factors recorded by an accelerograph served as indicator of bumpy air. The analysis performed showed that the bumpy air intensity decreases with the altitude up to the 5 - 6-km-level, but the tendency to increase is stated at higher altitudes. (The flights were performed up to the altitude of 7 km). The intensity distribution of bumpy air along the route and the diurnal course are presented for

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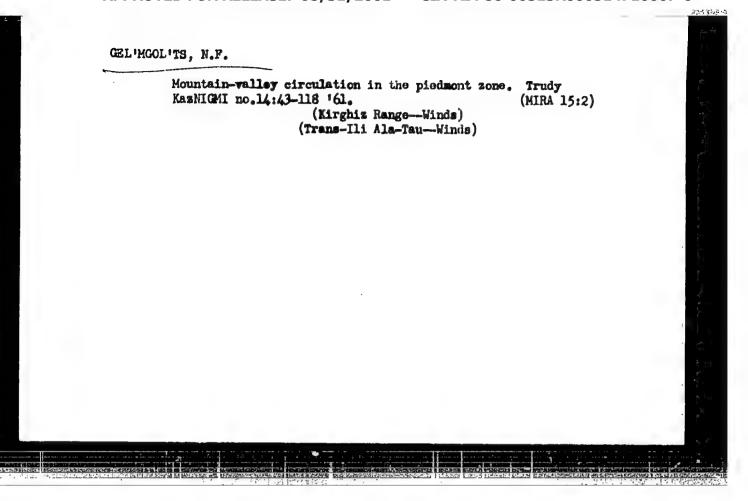
The Evolution Conditions of the Atmospheric Turbulence in the Foot Hill Zone of South-East Kazakhstan

the stations at Alma-Ata and Frunze. No dependence of bumpy air on the magnitudes of speed and wind shift was practically detected; more closed connections exist with thermal factors; the vertical temperature gradients, the ground temperature (only in the lower 2-km-layer), and the evolution degree of the convection cloudiness. The absence of a closed connection with the dynamical factor is explainable in the author's opinion by the weakness of winds in the southern Kazakhstan.

A.S. Dubov

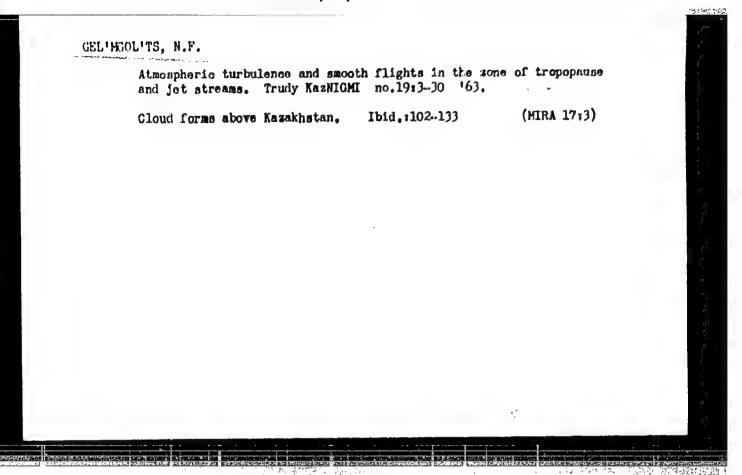
Translator's note: This is the full translation of the original Russian abstract.

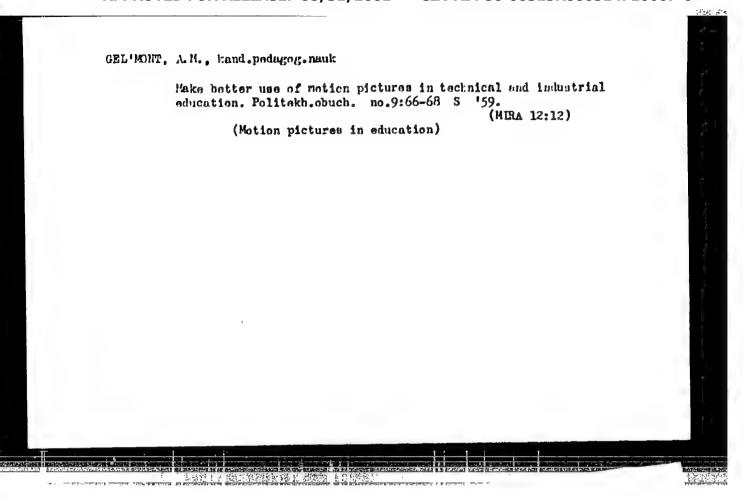
Card 2/2



GEL'MGOL'TS, Nikolay Fedorovich; KOTIKOVSKAYA, A.B., red.; NIKOLAYEVA, G.S., tekhn. red.

[Mountain and walley circulation on the northern slopes of the Tien Shan] Gorno-dolinnaia tsirkuliatsiia severnykh sklonov Tian'-Shania. Leningrad, Gidrometeoizdat, 1963.
328 p. (MRA 17:1)





OTHER: 001

PAT(1)/EMO(1)/T Pa-6 IJP(c)/ASD(a)-5/AFWL/ESD(ge)/ESD(t)/RANH(t) 3/01/31/64/006/009/2856/2857 ACCESSION NR: AP4044966 56 AUTHORS: Gurevich, L. E.; Gel'mont, B. L. TITLE: Transverse galvanomagnetic waves and their detection by means of resonance phenomena SOURCE: Pizika tverdogo tela, v. 6, no. 9, 1964, 2856-2857 TOPIC TAGS: Galvanomagnetic wave, resonance, semiconductor, semi-ABSTRACT: Referring to the observation of the oscillatory galvanometal, carrier density magnetic effect in metallic sodium by R. Bowers, C. Legendy, and F. Rose (Fhys. Fev. Letters v. 7, No. 9, 339, 1961), the authors calculate from their data the impedance of the primary circuit of their test setup as a function of the frequency, and show that in addition to the maximum observed by Bowers et al., there is also a frequency corresponding to a minimum, at which the impedance changes from 1/2 ACCESSION NEL AP4044966 capAPPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-UUS-Linductive, and which was not taken into account at CIA-RDP86-00513R000514710007-6 all. It is Eurther pointed out that the galvanomagnetic effect frequency can be observed not only in metals but also in semiconductors and semimetals having a single type of carrier, but owing to the lower carrier density the frequencies will be much higher. Orig. ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. loffe AN SSSR, Leningrad (Physicotechnical Institute, AN SSSR) SUBMITTED: 13Apr64 SUB CODE: SS, 15M NR REF €)V₁ 002

CCESSION NR: AP404521	ro		8/0057	64/034/003/1597/	1604	
JTHOR: Gurevich, 1, E.	; Qul'mont, B	L.				
ITLE: Contribution 1	o the theory	of thereomagn	etohydrodyna:	ilo waves in a we	akly	1
onuniform plasms		*				
OURCE: Zhurnal teldini	lcheskoy fizik	ii, v.34, nol.8	, 1964, 1597	-1304		
OPIC TAGS: nonunillor odynamics, star	plasma, weal	aly ionized pl	asma, wave p	ropagation, magne	tohyd-	A PARTY OF THE PAR
		herminath win	the propaga	ion of waves in.	a ful-	
v ionized plasma in	uniform magn	etic field in	the presence	e of small temper	ature	# 1
BSTRACT: The authors y ionized plasma in o nd density gradients xtend this discusulo	uniform magn (ZhETF 44,548) a to the case	etic field in 3,1963; 46,884 of a weakly i	the presence, 1964). In the onized plasm	e of small temper to present paper a. The calculation	they as are	distant.
y ionized plasma in ond density gradients xtend this discusulous and on the magneton	uniform magn (ZhETF 44,048) to the case wiredynamic ec	netic field in 3,1963; 46,884 of a weakly in quations of mo	the presence, 1964). In the onized plasmation of a vice	e of small temper he prosent paper in The calculation nocus gas, with t	they us are	والمتفاحة إجراره المتعاقبة
y ionized plasma in a nd density gradients xtend this discusuion ased on the magnetion n the expressions for hermomernatic current	uniform magn (ZhETF 44,046 to the case ydrodynamic ed the electric than linear:	netic field in 3,1963; 46,884 of a weakly i quations of mo c field and th leed equations	the presence, 1964). In the onized plasmation of a viso heat flux for a large	e of small temper he present paper in The calculation necus gas, with to to take account of hic perturbation	they us are orus of the were	Action of the Spirit
y ionized plasma in ond density gradients xtend this discusuion ased on the magnetich n the expressions for	a uniform maging (ZhETF 44,046) to the case of the destrict the electrical transfer dispension of the electr	netic field in 3,1963; 46,884 of a weakly i quations of mo c field and th leed equations preson equation	the presence, 1964). In the onized plasmation of a viso heat flux for a harmon is written	e of small temper he present paper a. The calculation necus gas, with the to take account of hic perturbation . In the derivati	they us are eris if the were on of	

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ACCESSION NR: AP4045270

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compared with the electron mean free time, that the wavelength is short compared with the length characterizing the nonuniformity of the plasma, and that the magnetic pressure is small compared with the kinetic pressure. The solutions of the dispersion equation are discussed in detail, and conditions are derived for the Stability of the different types of wave. It is found that in passing from a strongly lonized to a weakly ionized plasma the propagation direction of the thermomagnetic waves changes, and there is a region from which the waves are reflected. This situstion occurs in stars where the outer region is weakly ionized and the inner region is completely ionized. Both Alfven-waves and thermomagnetic waves are found to be linearly polarized when the conditions for their stability are met, and to be elliptically polarized when they are unstable. The instability of the thermomagnetic waves in a stomic magnetic field is discussed in the drift approximation for the case in which the temporature gradient is parallel to the applied magnetic field. The dispersion equation thus found is consistent with that obtained in the magnetohydrodynamic approximation. The drift theory shows that the instability of a plasma in a strong magnetic field in the presence of a temperature gradient is due to drift of particles occasioned by an inertial force acting on the ions. Orig.art. has: 61 formulas.

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co-technical Inst	itute, AN 888R)		ESCL: 60
SUB CODE: ME	HR REP	80V1 005	OHER; CO1
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ACCESSION NR: AP4025921 S/0056/64/046/003/0884/0301

AUTHOR: Gurevich, L. E.; Gel'mont, B. L.

TITLE: Hydrothermonagnetic waves in a weakly inhomogeneous plasma

SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 46, no. 3, 1964, 884-901

TOPIC TACS: plasma, plasma stability, global instability, local instability, hydrothermomagnetic wave, plasma temperature gradient, plasma density gradient, plasma dielectric constant, electron larmor frequency, electron relaxation time, convective instability, absolute instability, poloidal field, totoidal field

ABSTRACT: local instability, characterized by development of local fluctuations and considered by Rudakow and Sagedeyev (Yaderny'ny sinetz, Appedix 2, 1952) for the case of a collisionless plasma, is considered in the case of hydrothermal magnetic waves in a weakly inhomogeneous plasma with a small temperature or density gradient or a constant electric field (the case of nonzero temperature gradient and a uniform weak magnetic field was considered by the author earlier in ZhETF v. 44, 548, 1963). The general equations obtained are rather complicated, and consequently the relation between this type of instability and the

ACCESSION NR: AP4025921

instability of the system as a whole (global instability) is considered for the simplest case of a system with a dielectric constant that varies in one direction only and is nonvanishing in the entire region under consideration. It is shown that the appearance of a positive imaginary frequency component denotes the transition of the system from local to global instability. The character of the instability is examined for several values of $\Omega\tau(\Omega)$ — electron larmor frequency and τ — electron relaxation time). When $\Omega\tau$ <<1 the instability is convective, when $\Omega\tau$ > 1 it is absolute. The growth rate of the instability is shown to be a maximum when the wave vector, the magnetic field vector, and the temperature gradient vector are parallel. The instability of hydrothermomagnetic waves in a weak magnetic field and in a strong magnetic field is also analyzed and the case when radiative thermal conductivity predominates is examined. It is shown that the presence of instability in an external poloidal field may give rise to a toroidal field and vice versa. This mechanism may be of significance in the creation of the magnetic field of celestial bodies. Orig. art. has: 55 formulas.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe AN SSSR (Physico-technical Institute AN SSSR)

SUBMITTED: 12Jul63

DATE ACQ: 16Apr64

ENCL: 00

IJP(c) EXT(1)/EMT(m)/EEC(t)/EMP(t)/EMP(b) Peb 1. 21829-65 -s/nn56/54/047/005/1806/1813 ACCESSION NRI APSOCO336 AUTHOR: Gurevich, L. E.; Gel'mont, B. L. TITLE: Thermonnenetic waves in a solid body SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 47, no. 5, 1964, 1806-1813 TOPIC TAGS: thermomagnetic wave, thermomagnetism, thermal emf, bismuth copper ABSTRACT: It is demonstrated that at sufficiently low temperatures in a number of netals and semi-metals thermomagnetic waves can be detected which are similar to those discovered earlier by one of the authors in a nonhomogeneous plasma with a temperature gradient (L. E. Gurevich, ZhETF, 44, 548, 1963). In the case of Bi and Cu, the waves appear at temperatures of the order of 20-30K and lower. Similarly, ... as was observed in a plasma, these waves in solids can show an increasing amplitude. In a weak magnetic field, when the Larmor frequency of electrons is much smaller than the frequency of collisions,

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ACCESSION NR: AP5000336

the instability is convective, while in a strong field it becomes absolute. In the case of one-sign carriers, the increase of the thermal emf resulting, for example, from the phonon-drag of electrons or from peculiarities in electron scattering can change substantially the critical temperature gradient and the critical magnetic field, as well as the descillation increment in the presence of the instability. If the number of carriers of both signs is equal, the thermal emf along with the descillation increment can, in a strong magnetic field, increase markedly. In such a field, when the temperature is close to zero, the thermomagnetic waves turn into waves with quadratic spectra. Orig, art, has: 27 formulas.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe (Physibal-Technical Institute)

SUBHITTED: 24Apr64

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SUB CODE: ME, EM

NO REF SOVE -- 007

OTHER: -- 002----

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Card 2/2

IJP(c) : 00 EPA(s)-2/EWI(1) Pt-10 L 33521-65 8/0181/65/007/003/0597/0706 AP50015869 ACCESSION NR: AU HOR: Gurevich, L. E.; Gel'mont, B. L. Ferromagnetic waves in solids and methods for their experimental observation SOURCE: Fizika tverdogo tela, v. 7, no. 3, 1965, 697-706 TOPIC TAGS: thermomagnetic wave, temperature gradient, convective instability, absolute instability, impedance oscillation AESTRACT: The article deals with a new type of wave that can propagate in a medium in which a temperature gradient exists, a wave the authors investigated earlier and called thermomagnetic (ZhETF v. 14, 548, 1963 and v. 47, 1806, 1964). If such a wave is made to propagate in the inductance-coil core in which the temperature gradient is perpendicular to the constite, then the impedance of the constituent change noticeably, depending on the type of instability (convective or absolute), and it is shown that this phenomenos can be used to observe experimentally the presence of thereconquetic waves. The active component of the coil impedance oscillates as a function of the frequency, while the reactive component reverses sign Card 1/2

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under certain conditions. In the presence of a magnetic field parallel to the temperature gradient, the active resistance of the coil becomes migative in the presence of conventive instability, and oscillations with frequency that depend on the load resistance can be produced in the circuit. In the region of absolute instubility, the resultant oscillations are independent of the loss. In that case the oscillation frequencies depend on the magnetic field intensity and on the temperature gradient. In the transition region between the convective and absolute instabilities, both saves may exist simultaneously. Orig. art. has: 1 (igure and 31 formulas.

ASBOCIATION: Fiziko-tekhnicheskiy iastitut im. A. F. Toffe AF SSSR, Leningrad (Physicotechnical Institute, AM SSSR)

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SUHMITTED: 25Jun64

OTHER!

ATD PRESS: 3226

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MO REF SOVE

GURRVICE, L.E., prof. (Inningrad); GEL'MONT, B.L. (Leningrad)

Thermomagnetic waves. Priroda 54 no.2177-78 P *65. (MIRA 18:10)

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000514710007-6

IJP(c) EWT(1) L 45097-66

ACC NR: AP6024879

SOURCE CODE: UR/0056/66/051/001/0183/0193 59

AUTHOR: Gurevich, L. E.; Gel'mont, B. L.

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TITLE: Nonlinear theory of thermomagnetic waves

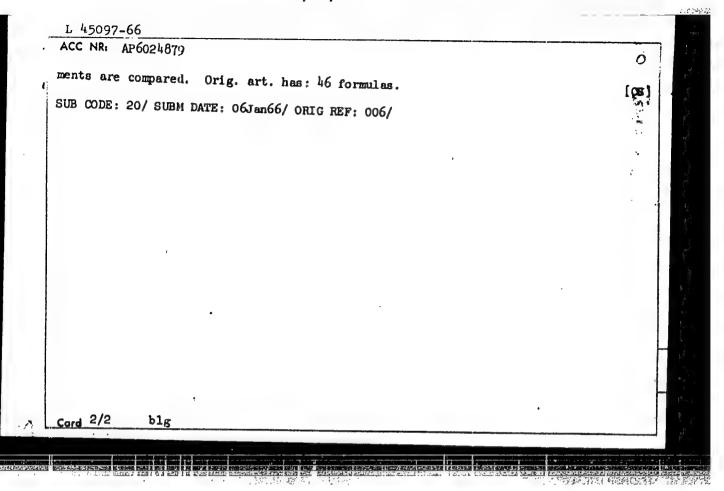
SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 51, no. 1, 1966,

183-193

TOPIC TACS: noncollisional plasma, plasma instability, semimetal, thermomagnetic WAVE, NONLINEAR THEORY, TRAVELING WAVE, STANDING WAVE

ABSTRACT: The nature of thermomagnetic waves and their amplification in the presence of instability are qualitatively described. Two possible experiments in which the waves may be detected are considered. In one of them the thermomagnetic waves are traveling waves and in the other, standing waves. An exact solution of the nonlinear equation for the stationary state is given for the first case. The conditions for realization of the first case are investigated and are found to be identical with the condition for the soft excitation regime. The kinetics of the development of instability, conditions for soft and hard excitation, and the stationary state for a small excess of the temperature gradient with respect to its critical value are investigated for the second case. The conditions for feasibility of the two experi-

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"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000514710007-6

GEL MONT, Z. t/m.
ULSK/Electronics - Piezoelectric Filters

FD-2226

Card 1/1

Pub 90-6/12

Author.

: *Velikin, Ya. I., *Gel mont. Z. Ya., *Zelyakh, E. V.

Title

: High-pass piezoelectric filter

Periodical: Radiotekhnika, 10, 41-49, Mar 1955

Ab. -act

: Theory and methods of calculation of a certain type of high-pass piezoelectric filter are presented in this article. Analysis of the filter circuit, determination of the characteristic parameters of the filter. derivation of formulas for calculation of resonant frequencies and operating attenuations are explained in detail. The calculated values of the high-pass piezoelectric filter characteristics were checked experimentally, and were found to be in good agreement. Two USSR references cited. For-

mulas; graphs.

Institution:

*Active members of the All-Union Scientific and Technical Society of Radio

Engineering and Electric Communications imeni A. S. Popov. Moscow

Submitted: 22 Apr 1954

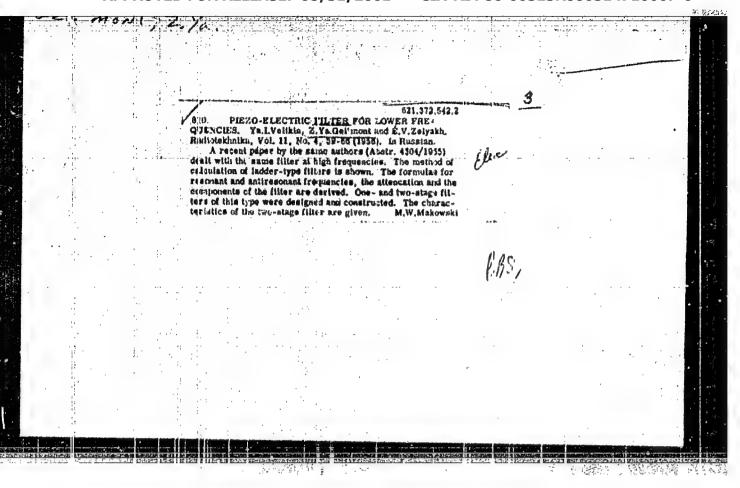
GELMONT Z YA .

Class 21al, 2202, No. 102860. Ya. I. Velikin, Z. Ya. Gel'mont and E. V. Zelyakh. Electric Band-Elimination Filter.

To reduce distortion of the transmitted signal it is suggested that extension arms, having characteristic resistances approximately equal to the nominal resistance of the filters, be connected at the input and output of series-connected filters of low and high frequencies formed by the elimination filter.

To widen the range of filter-element values by way of utilizing LF and HF filters with dissimilar nominal resistances, it is suggested that extensions be used with the same characteristic resistances at parallel connection and at the filters of low and high frequencies, approximately equal to the nominal resistance of the corresponding filter.

Authors' Certificates, Elektrosvyaz' No. 9, 1956.



Crystal suppression filter with several excluding bands. Vest. sviazi 16 no.3:6-8 Mr *56. (MIRA 9:7) 1.Starshiy inzhener Mauchno-issledovatel*skogo instituta gorod-skoy sel*skoy telefonnoy svyazi. (Radio filters)

"Narrow-band Quartz Filters for the 1 to 10 MC Range," (New Works in the Field of Wire Communication; Collection of Information) Moscow, Svyaz'izdat [1957]

omarmour, Z. Ta.

Abst.: NIITS has developed narrow-band quartz filters for the 1 to 10 mc range for cable multiplexing. These filters are needed for separating the currents of the control frequencies which actuate the automatic level control, and the currents of the group converter carrier frequencies. Formulas are given for designing the filter elements, the adapters, and for calculating circuit parameters. This method of designing filters has been tested experimentally.

507/111-58-3-11/29

AUTHOR:

Gel'mont, Z.Ya., Senior Engineer of NIITS

TITLE:

A Four-Electrode Piezoelectric Resonator for the Frequency Range of 250-600 Kilocycles (Chetyrekhelektrodnyy pyezoelektricheskiy rezonator dlya dispazona chastot 250-600

kgts)

PERIODICAL:

Vestnik svyazi, 1958, Nr 3, p 12 (USSR)

ABSTRACT:

The author discusses a circuit for a four-electrode resonator with oscillations in the second harmonic, to be used in filters. The application of this circuit reduces by two times the number of resonators in quartz filters serving for separating group carrier frequencies in the high-frequency apparatus "W12". There are five circuit diagrams, one photo and one graph.

ASSOCIATION: NIITS

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SOV/106-58-6-10/13 Gel'mont, Z.Ya. AUTHOR:

An Unbalanced Low-frequency Piezoslectric Filter (P'yezoelektricheskiy fil'tr nizhnikh chastot po TITLE:

neuravnoveshennoy skheme)

Elektrosvyaz', 1958, Nr 6, pp 67 - 74 (USSR) PERIODICAL:

The filter circuit, which comprises a piezoelectric ABSTRACT: resonator, three inductance coils and five capacitors, is shown in Figure 1. Figure 2 shows the equivalent X-circuit. Graphs of the impedances of the arms of the equivalent X-circuit are shown in Figure 3a. Using the denotations given in Figure 2 and Figure 3a, the impedances of the filter areas are expressed by Eqs.(1) to (3).

The characteristic transmission constant g is determined

from the formula:

th
$$\frac{g_c}{2} = \sqrt{\frac{z_1}{z_2}} = \frac{jp}{\sqrt{\frac{f_b^2}{f^2} - 1}} \cdot \frac{f_2^2 - f^2}{f_1^2 - f^2}$$

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An Unblanced Low-frequency Piezo electric Filter

To find the number of poles of the attenuation characteristic b in the stop-band, the modulus of th g_c/2 is equated to unity and it is shown that the attenuation characteristic has three poles. The graph of b is produced in Figure 3b.

Frequency f_b is the boundary frequency of the theoretical pass-band. For purposes of calculation, the geometric mean of the effective pass-band boundary frequency f_k and the effective stop-band boundary frequency f_k is taken as the frequency f_b (Ref 1).

The resonant frequencies f₁ and f₂ in the pass-band are calculated by Eqs.(7) and (8) (Ref 2).

The characteristic impedance Z_c of the filter is given in Eq.(13). A graph of the characteristic impedance calculated by Formula (13) is given in Figure 3. The frequency f_c in the stop-band is chosen so as to give

An Unbalanced Low-frequency Piezelectric Filter

load impedance R_o . The limit of the effective pass-band $f_{\mathbf{X}}$ is the point where the impedance Z_c equals the nominal impedance R_{nom} , i.e. Z_c for f=0. Maximum impedance of Z_c corresponds to the frequency:

$$\mathbf{f}_{\mathbf{m}} = \sqrt{2\mathbf{f}_{\mathbf{b}}^2 - \mathbf{f}_{\mathbf{c}}^2}$$

and corresponds to:

$$z_{c \text{ max}} = \frac{1}{2\pi pc_1 \sqrt{r_c^2 - r_b^2}}$$
.

Formulae for calculation of the filter elements and for finding the working attenuation are produced. It is shown that calculation of the working attenuation in the stop-band amounts to finding, and then summating, seven simple components. The calculation is simplified by use

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An Unbalanced Low-frequency Piezo-electric Filter

of the graphs given in Figures 6 to 8. Figure 9 shows as measured.

There are 9 figure 9 shows

There are 9 figures and 5 references, 4 of which are Soviet and 1 German.

SUBMITTED: December 18, 1957

Card 4/4 1. Piezoelectric filters-Analysis

AUTHOR: Gel'mont, Z.Ya. SOV/106-58-12-8/13

TITLE:

Piezoelectric Filters with an Inductor Zaving a Given Coupling Coefficient (P'yezoelektricheskiye fil'try, soderzhashchiye katushki induktivnosti s zadannym koeffitsiyedam svyazi)

PERIODICAL: Elektrosvyaz', 1958, Nr 12, pp 58 - 64 (USSR)

ABSTRACT: The use of inductively coupled coils in piezoelectric filters gives flexibility and economy of components; one double-winding coil is equivalent to two single-winding inductances and its impedance transformation properties permit a wide range of resonator dimensions and capacity values. Low-pass and high-pass piezoelectric filter circuits, both balanced and unbalanced, were given by Mason, Velikin et al, and Herzog (Refs 1-4). These circuits are simplified in this article, so that fewer components are used. The balanced circuits and their characteristics are given in Fig 1 and the unbalanced circuits in Figs 4,5 and 6. The equivalent circuits are obtained by replacing the piezoelectric resonators by

Card 1/3 their equivalent circuits and the inductor by the circuit shown in Fig 2. The voltage- and current-resonance